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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (original) A method of forming an integrated circuit package having a
 sensor with imaging capability comprising:
- connecting components to a single-piece substrate, including fixing an integrated circuit die to a first area of said single-piece substrate and fixing a light source to a second area of said single-piece substrate, said integrated circuit die having said sensor; and
- enclosing said components to define said integrated circuit
 package having exposed input/output connections and having a window
 optically aligned with said sensor;
 - wherein said first and second areas of said single-piece substrate are at an angle to each other within said integrated circuit package, such that an axis of light from said light source is non-parallel to an imaging axis of said sensor and such that said light source illuminates a field of view of said sensor.
- 1 2. (original) The method of claim 1 wherein said single-piece substrate is a
- 2 lead frame, said fixing of said integrated circuit die including using die attach
- 3 techniques.

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- 1 3. (original) The method of claim 2 wherein connecting said components
- 2 includes attaching said integrated circuit die and said light source to said lead
- 3 frame while said lead frame is substantially flat, said enclosing including
- 4 bending said lead frame to establish said angle of said first area to said
- 5 second area.

- 1 4. (original) The method of claim 3 further comprising forming an electrically
- 2 insulative material on opposite sides of said lead frame prior to connecting
- 3 said components, thereby defining a package form, said package form being
- 4 patterned to include a locking mechanism, said bending of said lead frame
- 5 including utilizing said locking mechanism to fix said lead frame in a position
- 6 to establish said angle.
- 1 5. (original) The method of claim 4 wherein defining said package form
- 2 includes fabricating separate first and second portions on said lead frame,
- 3 said first and second portions having cooperative structural features which
- 4 define said locking mechanism.
- 6. (original) The method of claim 1 further comprising patterning electrically
- 2 insulative material onto opposite sides of said one-piece substrate to define a
- 3 package form in which said first and second areas of said one-piece substrate
- 4 are fixed at said angle.
- 1 7. (original) The method of claim 6 wherein said one-piece substrate is a
- 2 lead frame, said patterning including enabling input/output connections to
- 3 remain exposed at an exterior of said package form.
- 1 8. (original) The method of claim 6 wherein connecting said components
- 2 includes using die attach techniques to connect said integrated circuit die and
- 3 light source in separate passes of said lead frame through a fabrication line.

- 1 9. (original) The method of claim 1 wherein connecting said components
- 2 includes providing sald integrated circuit die to include a matrix of pixel
- 3 elements and to include digital signal processing circuitry, said angle being
- 4 selected to establish a light-source-to-sensor relationship in which light from
- 5 said light source illuminates a surface being imaged by said matrix of pixel
- 6 elements, said matrix of pixel elements being said sensor.
- 1 10. (original) The method of claim 9 wherein enclosing said components
- 2 includes attaching a lens system for directing said light from said light source
- and for collecting light reflected from said surface toward said matrix of pixel
- 4 elements, thereby providing a module for electrical and mechanical
- 5 connection within an electronic device.
- 1 11. (original) The method of claim 10 wherein connecting said components
- 2 includes providing said integrated circuit die such that said digital signal
- 3 processing circuitry is dedicated to generating navigation information specific
- 4 to movement of said sensor relative to said surface being illuminated by said
- 5 light source.
- 1 12.-16. (cancelled)

ł	17. (original) A method of forming an integrated circuit package comprising:
2	providing a generally flat lead frame having spaced apart
3	first and second areas for receiving components and having a plurality of
4	input/output conductors;
5	forming a first package portion about said first area of said
ŝ	lead frame;
7	forming a second package portion about said second area of
8	said lead frame;
9	fixing a sensor die to said first area, including electrically
0	connecting said sensor die to at least some of said input/output conductors;
1	fixing a light source to said second area, including electrically
2	connecting said light source to at least one of said sensor die and said
3	input/output conductors; and
4	bending said lead frame in a region between said first and
5	second areas to establish a condition in which light from said light source
6	illuminates a field of view of said sensor die.

- 1 18. (original) The method of claim 17 further comprising securing said lead
- 2 frame in said condition using physical features of said first and second
- 3 package portions, wherein said first and second package portions are formed
- 4 using molding techniques.
- 1 19. (original) The method of claim 17 wherein fixing said sensor die includes
- 2 using die attach and wire bonding techniques for a device having a matrix of
- 3 pixel elements and circuitry dedicated to determining navigation information.

- 1 20. (original) The method of claim 17 further comprising attaching a lid to
- said first and second package portions after said bending, said lid including a
- 3 lens system for directing said light from said light source and collecting light
- 4 for said sensor die, wherein attachment of said lid forms a module for
- 5 connection within an electronic device.
- 1 21. (original) A method of forming an integrated circuit package comprising:
- 2 fabricating a lead frame having a plurality of input/output
- 3 conductors, said lead frame having spaced apart first and second areas for
- 4 receiving components:
- forming a package body of electrically insulative material on
- 6 said lead frame such that said first and second areas are at a selected angle
- 7 with respect to each other;
- 8 fixing a sensor die to said first area, including electrically
- 9 connecting said sensor die to at least some of said input/output conductors;
- 10 and
- fixing a light source to said second area, including connecting
- said light source to at least one of said sensor die and said input/output
- 13 conductors;
- 14 wherein said selected angle is such that a condition is
- 15 established in which light from said light source illuminates a field of view of
- 16 said sensor die.
- 1 22. (original) The method of claim 21 wherein fixing said sensor die includes
- 2 using die attach and wire bonding techniques for a device having a matrix of
- 3 pixel elements and circuitry dedicated to determining navigation information.

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- 1 23. (original) The method of claim 21 further comprising attaching a lid to
- 2 said package body, said lid including a lens system for directing said light
- 3 from said light source and collecting light for said sensor die, wherein
- 4 attachment of said lid forms a module for connection within an electronic
- 5 device.
- 1 24. (original) The method of claim 21 wherein fixing said sensor die includes
- 2 using die attach and wire bond techniques for a die having a matrix of pixel
- 3 elements and circuitry dedicated to determining navigation information on the
- 4 basis of image information from said matrix.